

Product Data Sheet

Product Name: LP-911888

Cat. No.: GC81588

Chemical Properties

Cas. No.

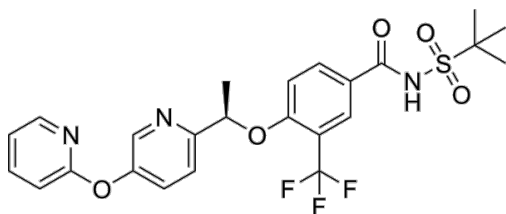
Formula $C_{24}H_{24}F_3N_3O_5S$ M.Wt 523.52

Solubility DMSO: 4.17 mg/mL (7.97 mM); ultrasonic and warming and heat to 60°C) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

LP-911888 is an orally active ACSL5/ACSL1 inhibitor, with IC₅₀ values of 1 nM and 3 nM against mouse and human ACSL5, and IC₅₀ values of 2 nM and 9 nM against mouse and human ACSL1, respectively. LP-911888 inhibits intestinal triglyceride uptake; it also reduces body weight and food consumption in diet-induced obese mice, and delays gastric emptying by activating the ileal brake pathway. LP-911888 can be used in studies of diet-induced obesity [1].

Caution: Product has not been fully validated for medical applications. For research use only.

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In Vivo, LP-911888 (1-10 mg/kg; p.o.) dose-dependently inhibits intestinal triglyceride uptake. It also reduces body weight and food intake in diet-induced obese mice, and delays gastric emptying by activating the ileal brake pathway^[1].

References:

[1]. Powell DR, et al. Acyl-CoA Synthetase 5 Knockout and Inhibitors Protect Against Diet-Induced Obesity in Mice by Activating the Ileal Brake. J Endocr Soc. 2025;10(2):bvaf196. Published 2025 Nov 28.

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